



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Chesnut *et al.*

Appl. No. 10/005,876

Filed: December 7, 2001

For: **Methods and Compositions for  
Synthesis of Nucleic Acid  
Molecules Using Multiple  
Recognition Sites**

Confirmation No. 7958

Art Unit: 1636

Examiner: Ketter, J.S.

Atty. Docket: 0942.5340002/RWE/BJD/JKM

**Sixth Supplemental Information Disclosure Statement**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450  
Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of each document is provided.

The numbering on this Sixth Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Fourth and Fifth Supplemental Information Disclosure Statements filed June 1, 2004, in connection with the above-captioned application.

The Examiner's attention is directed to the following co-pending U.S. Patent Application, which is directed to related technical subject matter:

U.S. Patent Application No. 10/893,235, Hartley, *et al.*, filed July 19, 2004 and submitted herewith as document **AS116**;

The identification of this U.S. Patent Applications is not to be construed as a waiver of secrecy as to this application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application and the art cited therein during examination.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

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This Information Disclosure Statement is being filed before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

Chesnut *et al.*  
Appl. No. 10/005,876

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

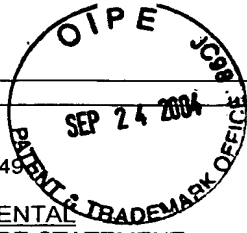
Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

A handwritten signature in black ink, appearing to read "Brian J. Del Buono", with a stylized flourish at the end.

Brian J. Del Buono  
Attorney for Applicants  
Registration No. 42,473

Date: Sept. 24, 2004  
1100 New York Avenue, N.W.  
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FORM PTO-1449

SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
0942.5340002/RWE/BJD/JKMAPPLICATION NO.  
10/005,876FIRST NAMED INVENTOR  
Chesnut *et al.*FILING DATE  
December 7, 2001ART UNIT  
1636

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
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	AK9	2003/0220249	11/27/2003	Hackett <i>et al.</i>			02/07/2003

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP9	WO 02/00875	01/03/2002	WIPO			Yes No

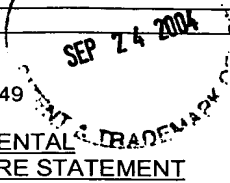
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>116</u>	Ohara, O. and Temple, G., "Directional cDNA library construction assisted by the <i>in vitro</i> recombination reaction," <i>Nucleic Acids Research</i> 29:e22(1-8), Oxford University Press (February 15, 2001).
	AS	<u>116</u>	Co-Pending U.S. Patent Application No. 10/893,235, Hartley <i>et al.</i> , filed July 19, 2004 (Not Published).
	AT	<u>116</u>	Hartley, J.L., <i>et al.</i> , "DNA Cloning Using In Vitro Site-Specific Recombination," <i>Genome Research</i> 10:1288-1795, Cold Spring Harbor Laboratory Press (November 2000).

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Page 2 of 3							
FORM PTO-1449 SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	<div style="text-align: center;">  </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ATTY. DOCKET NO. 0942.5340002/RWE/BJD/JKM</td> <td style="width: 50%;">APPLICATION NO. 10/005,876</td> </tr> <tr> <td colspan="2">FIRST NAMED INVENTOR Chesnut <i>et al.</i></td> </tr> <tr> <td>FILING DATE December 7, 2001</td> <td>ART UNIT 1636</td> </tr> </table>	ATTY. DOCKET NO. 0942.5340002/RWE/BJD/JKM	APPLICATION NO. 10/005,876	FIRST NAMED INVENTOR Chesnut <i>et al.</i>		FILING DATE December 7, 2001	ART UNIT 1636
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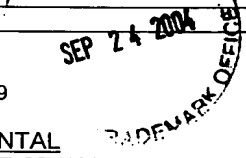
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL10	WO 02/16594	02/28/2002	WIPO			Yes No
	AM10	WO 01/31039	05/03/2001	WIPO			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>117</u>	Heyman, J.A. <i>et al.</i> , "Genome-Scale Cloning and Expression of Individual Open Reading Frames Using Topoisomerase I-Mediated Ligation," <i>Genome Research</i> 9:383-392, Cold Spring Harbor Laboratory Press (1999).
	AS	<u>117</u>	Invitrogen Online Catalog, <a href="http://web.archive.org/web/20010112191100/www.invitrogen.com/catalog_project/cat_echo.html">http://web.archive.org/web/20010112191100/www.invitrogen.com/catalog_project/cat_echo.html</a> (accessed July 7, 2004).
	AT	<u>117</u>	Invitrogen Online Catalog, <a href="http://invitrogen.com/content.cfm?pageid+3371&amp;cfid=16767784&amp;cftoken=62396683">http://invitrogen.com/content.cfm?pageid+3371&amp;cfid=16767784&amp;cftoken=62396683</a> (accessed July 7, 2004).

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FORM PTO-1449

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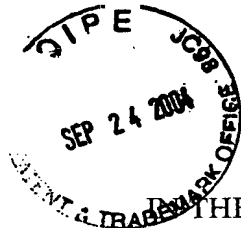
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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>118</u>	Russell, M., "A recombination-based cloning system that decreases time to protein analysis," <i>American Biotechnology Laboratory</i> 18:8-10, International Scientific Communications, Inc. (June 2000).
	AS	<u>118</u>	Sinclair, B., "Honing Your Cloning," <i>The Scientist</i> 14:29-32, The Scientist, Inc. (August 21, 2000).
	AT		

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**Seventh Supplemental Information Disclosure Statement**

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Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Brian J. Del Buono  
Attorney for Applicants  
Registration No. 42,473

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1100 New York Avenue, N.W.  
Washington, D.C. 20005-3934  
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313169\_1.DOC





FORM PTO-1448

SEVENTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
0942.5340002/RWE/BJD/JKMAPPLICATION NO.  
10/005,876FIRST NAMED INVENTOR  
Chesnut *et al.*FILING DATE  
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1636

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA10	4,808,537	02/28/1989	Stroman <i>et al.</i>			10/30/1984
	AB10	4,855,231	08/08/1989	Stroman <i>et al.</i>			09/25/1985
	AC10	4,959,217	09/25/1990	Sanders <i>et al.</i>			05/22/198
	AD10	5,654,182	08/05/1997	Wahl <i>et al.</i>			06/07/1995
	AE10	2002/0106797-A1	08/08/2002	Miles <i>et al.</i>			03/12/2001
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN10	WO 92/15694 A1	09/17/1992	WIPO			Yes No
	AO10	WO 00/12687 A1	03/09/2000	WIPO			Yes No
	AP						Yes No

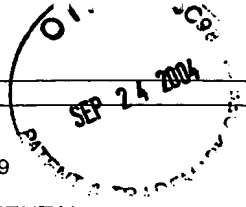
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS		
	AT	<u>118</u>	Agah, R., <i>et al.</i> , "Gene Recombination in Postmitotic Cells," <i>J. Clin. Invest.</i> 100:169-179, The American Society for Clinical Investigation, Inc. (July 1997)

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FIRST NAMED INVENTOR

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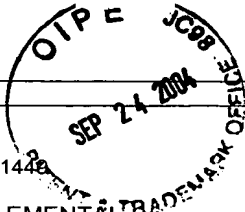
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>119</u>	Benoist, C. and Chambon, P., "In vivo sequence requirements of the SV40 early promoter region," <i>Nature</i> 290:304-310, Macmillan Journals, Ltd. (1981)
	AS	<u>119</u>	Botstein, D., <i>et al.</i> , "Making mutations <i>in vitro</i> and putting them back into yeast," in <i>From Gene to Protein: Translation into Biotechnology</i> , Ahmad, F., <i>et al.</i> , eds., Academic Press, New York, NY, pp. 265-274 (1982)
	AT	<u>119</u>	Broach, J.R., "The Yeast Plasmid 2 $\mu$ Circle," <i>Cell</i> 28:203-204, MIT (1982)

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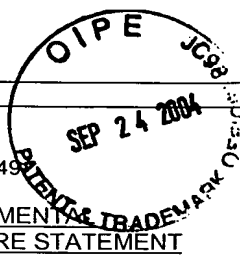
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>120</u>	Cenatiempo, Y., "Prokaryotic gene expression <i>in vitro</i> : transcription -translation coupled systems," <i>Biochimie</i> 68:505-515, Elsevier (1986)
	AS	<u>120</u>	Christiansen, B., <i>et al.</i> , "A Resolvase-Like Protein Is Required for the Site-Specific Integration of the Temperate Lactococcal Bacteriophage TP901-1," <i>J. Bacteriol.</i> 178:5164-5173, American Society for Microbiology (1996)
	AT	<u>120</u>	Crellin, P.K. and Rood, J.I., "The Resolvase/Invertase Domain of the Site-Specific Recombinase TnpX Is Functional and Recognizes a Target Sequence That Resembles the Junction of the Circular Form of the <i>Clostridium perfringens</i> Transposon Tn4451," <i>J. Bacteriol.</i> 179:5148-5156, American Society for Microbiology (August 1997)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>121</u>	Ferrin, L.J. and Camerini-Otero, R.D., "Sequence-specific ligation of DNA using RecA protein," <i>Proc. Natl. Acad. Sci. USA</i> 95:2152-2157, National Academy of Sciences (March 1998)
	AS	<u>121</u>	Golic, K.G. and Golic, M.M., "Engineering the Drosophila Genome: Chromosome Rearrangements by Design," <i>Genetics</i> 144:1693-1711, The Genetics Society of America (1996)
	AT	<u>121</u>	Gottesman, S., "Bacterial regulation: Global regulatory networks," <i>Ann. Rev. Genet.</i> 18:415-441, Annual Reviews, Inc. (1984)

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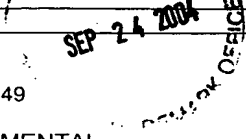
	AR	<u>122</u>	Guo, F., <i>et al.</i> , "Structure of the Cre recombinase complexed with DNA in a site-specific recombination synapse," <i>Nature</i> 389:40-46, Nature Publishing Group (September 1997)
	AS	<u>122</u>	Hallet, B. and Sherratt, D.J., "Transposition and site-specific recombination: adapting DNA cut-and-paste mechanisms to a variety of genetic rearrangements," <i>FEMS Microbiol. Rev.</i> 21:157-178, Elsevier Science B.V. (September 1997)
	AT	<u>122</u>	Hamer, D.H. and Walling, M., "Regulation <i>In Vivo</i> of a Cloned Mammalian Gene: Cadmium Induces the Transcription of a Mouse Metallothionein Gene in SV40 Vectors," <i>J. Mol. Appl. Genet.</i> 1:273-288, Raven Press (1982)

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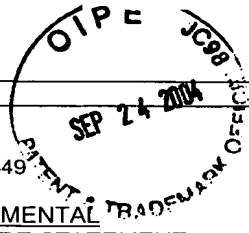
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	AR	<u>123</u>	Hanks, S.K. and Hunter, T., "The eukaryotic protein kinase superfamily: kinase (catalytic) domain structure and classification," <i>FASEB J.</i> 9:576-596, The Federation of American Societies for Experimental Biology (1995).
	AS	<u>123</u>	Huang, L.-C., <i>et al.</i> , "Convenient and Reversible Site-Specific Targeting of Exogenous DNA into a Bacterial Chromosome by Use of the FLP Recombinase: the FLIRT System," <i>J. Bacteriol.</i> 179:6076-6083, American Society for Microbiology (October 1997).
	AT	<u>123</u>	John, Jr., J.F. and Twitty, J.A., "Plasmids as Epidemiologic Markers in Nosocomial Gram-Negative Bacilli: Experience at a University and Review of the Literature," <i>Rev. Infect. Dis.</i> 8:693-704, University of Chicago Press (1986)

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## U.S. PATENT DOCUMENTS

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>124</u>	Johnston, S.A., and Hopper, J.E., "Isolation of the yeast regulatory gene <i>GAL4</i> and analysis of its dosage effects on the galactose/melibiose regulon," <i>Proc. Natl. Acad. Sci. USA</i> 79:6971-6975, National Academy of Sciences (1982)
	AS	<u>124</u>	Kendall, K.J., and Cohen, S.N., "Plasmid transfer in <i>Streptomyces lividans</i> : Identification of a kil-kor System Associated with the Transfer Region of pIJ101," <i>J. Bacteriol.</i> 169:4177-4183, American Society for Microbiology (1987)
	AT	<u>124</u>	Lyznik, L.A., <i>et al.</i> , "Activity of yeast FLP recombinase in maize and rice protoplasts," <i>Nucleic Acids Res.</i> 21:969-975, Oxford University Press (1993)

EXAMINER

DATE CONSIDERED

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FORM PTO-1449

SEVENTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
0942.5340002/RWE/BJD/JKM

APPLICATION NO.  
10/005,876

FIRST NAMED INVENTOR  
Chesnut *et al.*

FILING DATE  
December 7, 2001

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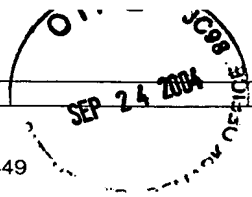
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>125</u>	Maniatis, T., "Recombinant DNA Procedures in the Study of Eukaryotic Genes," in <i>Cell Biology: A Comprehensive Treatise, Volume 3, Gene Expression: The Production of RNA's</i> , Goldstein, L. and Prescott, D.M., eds., Academic Press, Inc., New York, NY, pp. 563-608 (1980).
	AS	<u>125</u>	Mayer, B.J., and Baltimore, D., "Signalling through SH2 and SH3 domains," <i>Trends Cell Biol.</i> 3:8-13, Elsevier Science Publishers, Ltd. (1993)
	AT	<u>125</u>	McKnight, S.L., "Functional Relationships between Transcriptional Control Signals of the Thymidine Kinase Gene of Herpes Simplex Virus," <i>Cell</i> 31:355-365, MIT (1982)

EXAMINER	DATE CONSIDERED
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>126</u>	Nunes-Duby, S.E., <i>et al.</i> , "λ Integrase cleaves DNA in <i>cis</i> ," <i>EMBO J.</i> 13:4421-4430, Oxford University Press (1994)
	AS	<u>126</u>	Odell, J., <i>et al.</i> , "Site-directed recombination in the genome of transgenic tobacco," <i>Mol. Gen. Genet.</i> 223:369-378, Springer-Verlag (1990)
	AT	<u>126</u>	Peterson, B.Ø. and Shuman, S., "Hisitidine 265 Is Important for Covalent Catalysis by Vaccinia Topoisomerase and Is Conserved in All Eukaryotic Type I Enzymes," <i>J. Biol. Chem.</i> 272:3891-3896, The American Society for Biochemistry and Molecular Biology, Inc. (February 1997)

EXAMINER

DATE CONSIDERED

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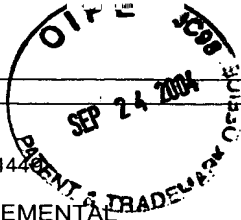
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>127</u>	Rausch, H. and Lehmann, M., "Structural analysis of the actinophage $\Phi$ C31 attachment site," <i>Nucleic Acids Res.</i> 19:5187-5189, IRL Press (1991)
	AS	<u>127</u>	Sadowski, I., <i>et al.</i> , "A Noncatalytic Domain Conserved among Cytoplasmic Protein-Tyrosine Kinases Modifies the Kinase Function and Transforming Activity of Fujinami Sarcoma Virus P130 <sup>gag-fps</sup> ," <i>Mol. Cell. Biol.</i> 6:4396-4408, American Society for Microbiology (1986)
	AT	<u>127</u>	Sauer, B. and Henderson, N., "Targeted Insertion of Exogenous DNA into the Eukaryotic Genome by the Cre Recombinase," <i>New Biol.</i> 2:441-449, Saunders Scientific Publications/W.B. Saunders Company (1990)

EXAMINER

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>128</u>	Senecoff, J.F., <i>et al.</i> , "The FLP recombinase of the yeast 2- $\mu$ m plasmid: Characterization of its recombination site," <i>Proc. Natl. Acad. Sci. USA</i> 82:7270-7274, National Academy of Sciences (1985)
	AS	<u>128</u>	Shaikh, A.C. and Sadowski, P.D., "The Cre Recombinase Cleaves the <i>lox</i> Site in trans," <i>J. Biol. Chem.</i> 272:5695-5702, The American Society for Biochemistry and Molecular Biology, Inc. (February 1997)
	AT	<u>128</u>	Shirai, M., <i>et al.</i> , "Site-Specific Integration of the Actinophage R4 Genome into the Chromosome of <i>Streptomyces parvulus</i> upon Lysogenization," <i>J. Bacteriol.</i> 173:4237-4239, American Society for Microbiology (1991)

EXAMINER

DATE CONSIDERED

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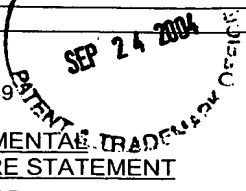
	AR	<u>129</u>	Shuman, S., <i>et al.</i> , "Characterization of Vaccinia Virus DNA Topoisomerase I Expressed in <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 263:16401-16407, The American Society for Biochemistry and Molecular Biology, Inc. (1988)
	AS	<u>129</u>	Shuman, S., "Site-specific Interaction of Vaccinia Virus Topoisomerase I with Duplex DNA," <i>J. Biol. Chem.</i> 266:11372-11379, The American Society for Biochemistry and Molecular Biology, Inc. (1991)
	AT	<u>129</u>	Silver, P.A., <i>et al.</i> , "Amino terminus of the yeast <i>GAL4</i> gene product is sufficient for nuclear localization," <i>Proc. Natl. Acad. Sci. USA</i> 81:5951-5955, National Academy of Sciences (1984)

EXAMINER

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FILING DATE December 7, 2001		ART UNIT 1636	

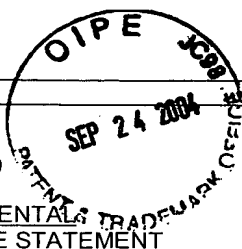
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>130</u>	Stark, W.M., <i>et al.</i> , "Catalysis by site-specific recombinases," <i>Trends Genet.</i> 8:432-439, Elsevier Science Publishers, Ltd. (1992)
	AS	<u>130</u>	Ulmanen, I., <i>et al.</i> , "Transcription and Translation of Foreign Genes in <i>Bacillus subtilis</i> by the Aid of a Secretion Vector," <i>J. Bacteriol.</i> 162:176-182, American Society for Microbiology (1985)
	AT	<u>130</u>	van Deursen, J., <i>et al.</i> , "Cre-mediated site-specific translocation between nonhomologous mouse chromosomes," <i>Proc. Natl. Acad. Sci. USA</i> 92:7376-7380, National Academy of Sciences (1995)

EXAMINER	DATE CONSIDERED
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>131</u>	Ward, J.M., <i>et al.</i> , "Construction and characterisation of a series of multi-copy promoter-probe plasmid vectors for <i>Streptomyces</i> using the aminoglycoside phosphotransferase gene from Tn5 as indicator," <i>Mol. Gen. Genet.</i> 203:468-478, Springer-Verlag (1986)
	AS	<u>131</u>	Invitrogen Life Technologies online catalog, "Directional TOPO Entry Vectors," (September 27, 2002). <a href="http://www.invitrogen.com/content.cfm?pageid=3799&amp;cfid=2897960&amp;cftoken=88086554">http://www.invitrogen.com/content.cfm?pageid=3799&amp;cfid=2897960&amp;cftoken=88086554</a>
	AT	<u>131</u>	International Search Report for International Application No. PCT/US99/19413 mailed on January 27, 2000

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